

CZECHOSLOVAKIA / Physical Chemistry. Electrochemistry. B-12

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76834.

Author : ~~Kuta, J.~~ and Krejci, E.

Inst : Not given.

Title : The Polarographic Reduction of Trans-Urocanic Acid.

Orig Pub: Chem Listry 51, No 12, 2225-2231 (1957) (in Czech).

Abstract: Trans-urocanic (imidazoleacrylic) acid is reduced at pH 0-9 by the addition of two electrons, which in all probability leads to a reduction of the double bond in the side chain. Values for the polarographic dissociation constant have been determined as follows: $pK'_1 = 5.6$ (in veronal-acetate buffer), 5.85 (in phosphate buffer); $pK'_2 = 7.1$ (in veronal-acetate buffer containing 0.16 M $CaCl_2$). At high pH values

Card 1/2

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CZECHOSLOVAKIA / Physical Chemistry. Electrochemistry. B-12

"APPROVED FOR RELEASE: 03/13/2001" CIA-RDP86-00513R000927910010-2

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76834.

Abstract: the step height decreases with time (10% after one hour). The irreversibility of the electrode reduction was investigated by tracing the dV/dt -V curves and by using the Kalousek switching device. The first section of the dissociation curve is assigned to the cation of trans-urocanic acid (pK unknown), the second section is assigned to the dissociation of the acid with $pK = 3.5$, and the third section is assigned to the dissociation of the univalent anion with $pK = 5.9$. The experimental data are in agreement with the theoretically predicted dissociation curves for dibasic and monobasic acids. The recombination rate constants of the monovalent cation, and of the divalent cation were found to be $k_{r2} = 8.7 \times 10^{13}$ and $k_{r3} = 9.2 \times 10^{10}$ mol^{-1} liter sec^{-1} , respectively.

Card 2/2

4

Current-time and current-voltage curves of hydrogen deposition on capillary mercury electrodes. J. K. Zimmerman (Polarographic Inst., Prague). Z. physik. Chem. (Leipzig) Sonderheft July, 1958, 74-83(1958).—The H⁺ overvoltage was studied on the dropping Hg electrode with controlled drop-time, and on the streaming Hg electrode with const. streaming under conditions involving no concn. polarization, an excess of supporting electrolyte, and a range of c.d. from 3×10^{-6} to 0.1 amp./sq. cm. The dependence of the overvoltage on the logarithm of the mean c.d. was linear, with the coeffs. b of the Tafel equation lying near 0.116 v. The overvoltage was displaced by the value, $(RT/F) \ln [H^+]$ when the H⁺ ion concn. was increased ten-fold. The exponent of the current-time curves on the 1st drop was changed from $1/4$, at the potential of the limiting current, to about $1/2$, at a potential corresponding, to one-tenth of the limiting current; this indicated the alteration of the rate-dtg. step of the electrode process. The limiting currents of the H-ion at the streaming Hg electrode as well as those at the dropping electrode were dependent on the rate of diffusion. The H step was sym. with a directional const. (about 0.116 v.), whereby the half-wave potential was more neg. than that at the dropping Hg electrode by the value $\Delta E_{1/2} = (RT/F) \ln (t_1/t_2)$, where t_1 is the time the surface of the streaming electrode was in contact with the soln., and t_2 is the drop-time.

H. K. Zimmerman

MTR
1/1

[Handwritten signature]

Kula, J

COUNTRY : Czechoslovakia 3-12
 CATEGORY : Analytical Chemistry--Electrochemistry.
 ABS. JOUR. : RZKhim., No. 19, 1959, No. 43905
 AUTHOR : Kula, J.; Git, I. and Uspol, I.
 INST. : Not given
 TITLE : Instantaneous Polarographic Currents. I. Diffusion-Limited Currents and Currents Limited by Slow Electrode Reactions. II. Investigation
 ORIG. PUB. : Chem Listy, Pt. No 7, 1949-1956; 1959-1965 (1958)
 ABSTRACT : I. Instantaneous polarographic currents and their time dependence are more suitable for use in the quantitative analysis of the kinetics of electrode processes than the average polarographic currents recorded by the classic polarograms. The author discusses a number of expressions which can be used for the representation of some types of instantaneous polarographic currents, taking into account spherical diffusion (SD). For a reversible redox system in
 CARD: 1/4 * tion of Current-Time Curves at Various Half-Wave Potentials for Reversible and Irreversible

COUNTRY : Czechoslovakia
CATEGORY :

B-1

ABB. JOUR. : RZKhim., No. 14 1959, No.

4200

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : when the product of the electrode reaction dif-
fuses back into the solution, the instantaneous
current is higher than the current calculated
by the Ilkovic equation at all values of the
potential. Following correction for SD, the
dependence of the instantaneous current on the
time over the interval 1-3 sec is expressed by
the relation

$$i = k \cdot t^{0.192}$$

In the case of amalgam formation the current

CARD: 2/9

COUNTRY : Unavailable 3-12
CATEGORY :
ABST. JOUR. : KERNIG, SO. 19 1971, 3. 4000
AUTHOR :
ISS. :
TITLE :
ORIG. PUR. :
ABSTRACT : after the application of the SD correction is increased when the potential is more negative than the normal potential and is decreased when the potential is more positive than the normal potential. This difference is due to the difference in the diffusion species of the reduced and the oxidized forms. If the electrode process proceeds slowly, the SD correction can be neglected in the first approximation and the character of the dependence of the polarization current

COUNTRY :
 CATEGORY :
 AUTH. SOUR. :
 ABSTOR :
 INFO. :
 TITLE :
 ORIF. PUB. :
 ABSTRACT : on the time depends on the potential; the slope of the $\log i - \log t$ curve lies in the range $1/6 - 2/3$. At lower overpotentials the curve slope may attain a maximum value in the region of the multi-wave potential.
 Since the effect of concentration polarization on the first and on subsequent drops is unequal (RZnKain, No 10, 1954, 22801; No 21, 1954, 44177; No 4, 1954, 4475), the current-time curves for the first drops, which are unaffected by

CARD: 4/9

3:60

COUNTRY : Czechoslovakia 2-12
 CATEGORY :
 ABS. JOUR. : REKhim., No. 14 1959, No. 48900
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : preceding polarization, was reported. The recording of these curves must be carried out in solutions containing a depolarizer in concentrations of $(4-5) \cdot 10^{-3}$ M at potentials corresponding to the following $i/i(\text{lim})$ ratios: 0.75, 0.5, 0.25, and 0.1. For reversible systems, e.g., $\text{Fe(II)} - \text{Fe(III)}$ and $\text{Ti(III)} - \text{Ti(IV)}$, in the presence of oxalate, and quinone-hydroquinone in phosphate buffer at pH 2.5, the authors have found a linear dependence between

CARD: 5/9

COUNTRY : Czechoslovakia 2-12
 CATEGORY :
 ABS. JOUR. : REKhim., No. 14 1959, No. 48900
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : $\log i$ and $\log t$. In agreement with theory, the slopes of these curves are 0.125 (independent of E). For reversible electrode processes in which the reduced form forms an amalgam, the linear relationship between $\log i$ and $\log t$ was found to be still valid, but the slope was found to correspond to the value cited only for $i(\text{lim})$; at more positive values of E the slope decreases and at $E_{1/2}$ was found ≈ 0.107 (zero $S_{1/2}$ correction). Under these conditions the current is

CARD: 5/9

B-61

COUNTRY : Czechoslovakia 8-12
 CATEGORY :
 ABS. JOUR. : RZKhim., No. 14 1959, No. 48900
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : where it is i/i_0 with increasing i and attains a value of 1/2.5 at $i(i_{lim})$. The dependence between $\log i$ and $\log i_0$ is linear only for values of i which are small compared to $i(i_{lim})$, in agreement with theory. At the foot of the wave the current is affected by the rate of the electrode reaction and at more negative E the rate of diffusion also exerts an effect. For irreversible electrode processes at low overpotentials, the value of the slope passes

CARD: 8/9

-63

COUNTRY : Czechoslovakia 8-12
 CATEGORY :
 ABS. JOUR. : RZKhim., No. 14 1959, No. 48900
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : through a maximum as a function of i . Examples discussed are the reduction of $Zn(2+)$ ions in a background of Na_2CO_3 and the reduction of $Zn(2+)$ against a background of $NaNO_3$ and $NaCl$. Metals of the Fe group exhibit anodic current-time curves.

CARD: 9/9

3

COUNTRY :
CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 625

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : solutions with pH 3.3-5.9, the general height
cont'd of the wave does not depend on the pH; $i(lin.)$
is slightly higher than in diluted solutions
of H_2SO_4 and the wave has a partly kinetic
character. The general height of the wave in
solutions with average values of pH partly de-
pends on the composition of the buffer solution.
At $pH > 8$ the current increases with growth of
pH; at pH 10 it has a kinetic character and,

CARD:

2/6

B-50

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927910010-

COUNTRY :
CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 625

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : at pH 12.3, a partly kinetic character. In
cont'd 0.01-1.0 n. NaOH, the height of the wave
reaches its maximum and $i(lin.)$ approaches the
value of diffusion current. With increase of the
concentration of OH^- ions, the height of the
wave decreases in the form of a dissociation
curve. With further growth of the concentration
of NaOH, $i(lin.)$ acquires an ever more kinetic
character, and in 6 n. NaOH the character of

CARD:

3/6

B

COUNTRY :
CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 625

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT :
cont'd

solutions, in the course of electroreduction OH^- ions are formed, increasing $i(\text{lim.})$ according to the autocatalytic mechanism. Since the constant of the rate of dehydration was not determined by an independent method, its value was not calculated, but only the constant equilibrium product was found, as well as the constants of the rate of reaction. In the middle range of pH, at $\text{pH} > 5$, a bifurcation of the wave

CARD: 5/6

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CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 625

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT :
cont'd

into two waves is observed, and the total $i(\text{lim.})$ is constant within this range. The more positive wave is conditioned by the reduction of free I, and the more negative by reduction of the anion OHCCOO^- . The author considers that the glyoxalate ion is less hydrated than the free I.-- P. Zuman

CARD: 6/6

FRAN, J.; HAZEN, E.

"Photographic reduction of transurocaine acid." *Journal of the American Chemical Society*, 71, 417.

CHEMISTRY OF CZECHOSLOVAK CHEMICAL SOCIETIES, Praha, Czech.,
Vol. 24, No. 1, Jan. 1959.

Monthly List of East European Accessions (MEEA), 10, Vol. 9, No. 6, Sept. 59

Unclassified

B-12

COUNTRY : Czechoslovakia

CATEGORY :

REF. JOUR. : RZKhim., No. 5 1960, No. 17166

AUTHOR : Weber, G. (1); Kuta, J. and Smoler, I. (2)

INSTR. : Not given

TITLE : Instantaneous Polarographic Currents. I. Diffusion-Limited Currents and Currents Limited by Slow Electrode Reactions. II. Investigation of

ORIG. PUB. : Czechoslov Chem Commun., No. No 5, 1424-1435; No 7, 7201-7223 (1959)

ABSTRACT : See RZKhim, 1959, No 14, 4890B.

CARD: 1/1 *The Curves Expressing the Dependence of the Current on the Time at Various Potentials of the Polarographic Wave for Reversible and Irreversible Processes.

KUTA, J.

1

✓ Substitution reactions of cobaltic complexes catalysed by adsorption. A. A. Vlcek and J. Kuta (Czech. Acad. Sci., Prague). *Nature* 185, 95-6 (1959).—The rate of redn. of $[\text{Co}(\text{NH}_3)_4\text{X}]^+$ ions at a dropping Hg electrode varies with the supporting electrolyte in the order $\text{SO}_4^{2-} \ll \text{ClO}_4^- < \text{NO}_3^- < \text{Cl}^- < \text{Br}^-$, as shown by shift of the half-wave potential. At some min. halide concn. Cl^- , Br^- , and sometimes I^- cause a new redn. wave to occur with a relative height increasing with halide concn. This is attributed to a rapid, adsorption catalyzed reaction at the Hg surface to form a halide complex, as $[\text{Co}(\text{NH}_3)_4\text{Br}]^{2+}$, followed by redn. The relative height of this wave gives the reaction rate const.: Br^- replaces X substituents in the order $\text{NO}_3^- < \text{NH}_3 \approx \text{F}^- < \text{oxalate} \approx \text{ONO}^- < \text{OAc}^- < \text{H}_2\text{O} < \text{NO}_2^-$.

R. M. Witucki

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1-20(18)

Et
J

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Instantaneous polarographic currents. III. Investigation of current-time curves in the presence of surface-active substances. J. Jaroslav Káta and Ivan Smolár (Czechoslovak Acad. Sci. Prague). *Z. Elektrochem.* 64, 235-63 (1960); cf. *CA* 53, 19631a. — The effect of surface-active substances on electrode processes was followed by using instantaneous currents at the dropping-Hg electrode. The current (*i*)-time (*t*) curves obtained showed good agreement with the theory of Weber, *et al.* (*CA* 54, 110i) for uncharged surfactants, as far as the conditions of that theory were met. In the case of redn. of cations in the presence of surfactant cations, deviations were observed which were explained by modification of the rate const. of the electrode reaction on the free surface by specific adsorption of surfactant cations. The rate const. for the covered surface usually depended exponentially on the potential of the Hg electrode, and the transfer coeff. was smaller than for the free surfaces. On the basis of the *i-t* curves, the anomalous polarographic curves obtained in the presence of surfactants are explained. A simple expression was derived which permits detn. of the coverage of the electrode in the sep. phases of the drop-period from the *i-t* curves.

KUTA, J.; SMOIER, I.

Effect of surface-active substances on polarographic currents. Part 6:
Momentary currents and wave form in some reversible systems in presence
of loaded and non-loaded surface-active substances quickly adsorbed.
Coll Cz chem 27 no.10:2349-2364 0 '62.

1. Polarographisches Institut, Tschechoslowakische Akademie der
Wissenschaften, Prag.

KUTA, J.

"Advances in electrochemistry and electrochemical engineering" edited
by P. Delahay and Ch.W. Tobias. Vol.1: "Electrochemistry". Reviewed
by J. Kuta. Chem listy 57 no.2:174-176 F '63.

KUTA, J.; VALENTA, P.

Determining of the hydration equilibrium constants of glyoxylic acid and its anions by oscillography with induced stress. Coll Cz Chem 28 no.6:1593-1597 Je '63.

1. Polarographisches Institut, Tschechoslowakische Akademie der Wissenschaften, Prag.

KUTA, J.; SMOLER, I.

Polarographic momentary currents. Pt.4. Coll Cz Chem
28 no.11:2874-2885 N°63.

1. Polarographisches Institut, Tschechoslowakische Akademie
der Wissenschaften, Prag.

GEYROVSKIY, Ya. [Heyrovsky, Jaroslav], akademik; KUTA, Jaroslav;
GUL'BYAY, V.P. [translator]; KUZNETSOV, V.A. [translator];
MAYRANOVSKIY, I.G., doktor khim. nauk, red.; SAKHAROV, V.,
red.

[Principles of polarography. Translated from the Czech]
Osnovy poliarografii. Moskva, Mir, 1965. 559 p.
(MIRA 12:7)

CZECHOSLOVAKIA

POSPISIL, L.; KUTA, J.

J. Heyrovsky Polarographic Institute (Polarographisches Institut J. Heyrovsky), Czechoslovak Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb 1966, pp 733-742

"Effect of ionic strength on the equilibrium constant and the equilibrium of dissociation of cadmium complex with ethylenediaminetetraacetic acid."

CZECHOSLOVAKIA

CALUSARU, A.; KUTA, J.

J. Heyrovsky Polarographic Institute (Institut de Polarographie J. Heyrovsky), Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb 1966, pp 814-823

"Polarographic properties of the nitrohydroxylamine in solutions of Ce II and the mechanism of catalysis."

CZECHOSLOVAKIA

KUTA, J., KORTTA, J.

The J. Heyrovsky Institute of Polarography, Czechoslovak Academy of Sciences, Prague - (for both).

Prague, Collection of Czechoslovak Chemical Communications,
No 12, December 1965, pp 4095-4110

"Reduction of oxygen at the mercury electrode."
(For the 75th birthday of Academician J. Heyrovsky).

CZECHOSLOVAKIA

KUTA, J.; KORYTA, J.

J. Heyrovsky Institute of Polarography, Czechoslovak Academy of
Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 12,
Dec 1965, pp 4095-4111.

"Reduction of oxygen at the mercury electrode."

Kuta Jaroslav

EE-Czech.
retain

Distr: 4EhJ

27
 Overvoltage caused by hydrogen on the capillary mercury
 electrodes in strong and weak acids. Jaroslav Kuta
 (Czechoslov. Acad. Sci., Prague). ~~Prace~~
 chem., Warsaw 1955, 85-86 (Pub. 1957) (in German).
 The polarographic H stage of the strong acids is sym. and
 its half-stage potential is not dependent on the concn. The
 H overvoltage depends on a logarithmic relation to the time
 during which dropping of the electrode takes place. The
 border currents of the weak, nonreducing acids show a
 diffusion characteristic; H_2BO_3 , however, is an exception.
 52 references. F. J. Heudl

Yi

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Kuita, Jaroslav

Distr: hEh3

7

~~Polurographic reduction of imidazoleacetic acid. Jaroslav Kuita and Eduard Krejčí (Polarograf, Ostav 1957) in the range of pH 0-9, trans-urocanic acid gives 2-electron-reduction waves whose heights depend on the pH value. Three apparent polarographic disocn. curves were observed. The 1st disocn. curve was supposed to be due to the reduction of a cation of unknown pK value. The 2nd disocn. curve was ascribed to the disocn. of the CO₂H group, and the 3rd one to the disocn. of H⁺ bound to N on the imidazole ring. The values of the 2nd and the 3rd rate consts. of disocn. and recombination were calcd. F. Šeráfelda.~~

4-11/1957

1/1

Jaj

KUTABAYEV, K.; TOMANOV, M.; ABDRAKIMANOV, A., kand. filol. nauk,
red.; AYTAMUKHAMMETOVA, S., red.; KOROTOVSKIY, M.P., red.;
KHUDYAKOV, A.G., tekhn. red.

[Russian-Kazakh dictionary] Russko-Kazakhskii terminologicheski
slovar'. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR.
Vol.9. [Terms used in construction and for building materials]
Terminy stroitel'stva i stroitel'nykh materialov. Pod obshchei
red. A.Abrakhmanova. 1962. 162 p. (MIRA 15:7)

1. Akademiya nauk Kazakhskoy SSR. Alma-Ata. Institut iazyko-
znaniya.

(Russian language--Dictionaries--Kazakh)
(Building--Dictionaries)

KUTÁČKA, Milan

③

/ Electrophoresis on filter paper in agricultural biochemistry. I. Separation and evaluation of the serum proteins of domestic animals. Milan Kutáček and Jaroslav Koloušek *Kysoká škola zemědělská, Píseň, Czech Republic; Českoslo. Akad. Zvěděl. Věd 26A: 575-86 (1953)*.--A simplified method for the electrophoresis of proteins in bovine and horse serum on filter paper with an automatic scanner for the quant. evaluation, giving reproducible results, is described. The results have been averaged statistically and compared favorably with the results by standard Tiselius electrophoresis. Standard values for the protein fractions of normal horse and bovine serum are given. A fraction has been found in electropherograms of horse serum which behaved towards dyes in the same manner as the other protein fractions and travels towards the anode ahead of the albumin fraction. It was denoted as Jan Mjčka.

Chemical Abst.,
Vol. 48 No. 9
May 10, 1954
Biological Chemistry

OPPLT, J.J.; KUTACEK, M.; LOETICKY, C.; CIZIMSKY, J.

New modification of clinical micro-analysis of body proteins; filter
paper partition electrophoresis. Cas. lek. cesk. 92 no.23:624-633
5 June 1953. (CLML 24:5)

1. Of the Department of Biochemistry (Head--J. Opplt, M.D.) of Prague
State Faculty Hospital.

KUTACEK, MILAN

CZECH

Paper electrophoresis in agricultural biochemistry. II. Separation and quantitative estimation of fractions of casein prepared according to Hammarsten. Milan Kutáček and Lubomír Kratochvíl (Vysoká škola zemědělská, Vědecký ústav pro mléko a vejce, Prague). *Sborník Českoslo. Akad. Zemedel. Vzd, Ser. A*, 17, 335-32 (1954); cf. *C.A.* 48, 8259c.

— Proteins of cow milk were investigated by paper electrophoresis (I). Proteins of whey, unlike the fractions of casein, are easily separable by I. Suitable conditions were found for the sepn. of the fractions of casein by I. I analysis of casein shows the presence of 3 components, which is in agreement with the results of classical electrophoresis by Thelius (*C.A.* 46, 602g). The existence of gamma casein, doubted by some investigators, was confirmed by I. Quant. evaluation of the paper electrophoregrams by densitometry and after elution is in agreement with the classical electrophoresis by Thelius. Jan Míčka

Handwritten initials/signature

KUTACEK, MILAN

Effect of isothiourea derivatives on monoamine oxidase.
Milan Kutacek (Vysoká škola zemědělská, Prague). *Chem. Zpr.* 38, 602-6 (1954).—Effect of various isothioureas on rabbit-liver monoamine oxidase was followed *in vitro*. The inhibition is evident in concns. of $10^{-6}M$, the concn. of tyramine- HCl substrate being $10^{-5}M$. Inhibition of various thioureas was found to be competitive. Effect of various substituents on N and S atoms of thioureas was investigated.
M. Hrdky

Kutáček, Milan

Effect of a strong gravitational field on horse-serum proteins. Jaroslav Koloušek and Milan Kutáček (Agr. Univ., Prague). *Časopis Ústavu Chemie* 63, 18-19 (1944).-- Horse serums were ultracentrifuged at 100,000 g for 30 min. and compared with corresponding untreated samples. The η rose from 1.3480 (untreated) to 1.3503. Serum proteins were precip. with 20% aq. $\text{C}_2\text{H}_3\text{COOH}$. Total protein N decreased after ultracentrifuging while total nonprotein N increased by more than 2-fold. It is concluded that ultracentrifuging under the conditions used leads to partial breakdown of serum proteins. I. D. Spencer ...

KOLOUSEK, Jaroslav; KUTACEK, Milan; BILEK, Jiri

Paper chromatography of galegine sulfates. Cesk. farm.
4 no.4:188-190 May 55.

1. Z agrobiocemicke laboratore Vysoke zemedelske v Praze.
(ALKALOIDS
galegine sulfate, paper chromatography)
(CHROMATOGRAPHY
of galegine sulfate)

KUTACEK, MILAN

Cviceni z biochemie. (Vyd. 1.) Praha, Statni pedagogicke nakl. 1956. 228 p.
(Ucebni texty vysokych skol) (Exercises in biochemistry; a university tesbook.
1st ed.) DA Not in DLC

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

CZECHOSLOVAKIA/Plant Physiology. Mineral Nutrition

Abstr Jour : Ref Zhur - Biol., No 19, 1958, No 85651

Author : ~~Kutecek Milan~~; Ullmann Jaroslav, and Liebl Vlastimil
Inst : Czechoslovak Agricultural Academy
Title : Root Excretions. II. The Transport of P³² in Wheat Plants
Grown by the Isolated Nutrition Method

Orig. Pub : Spor. Ceskosl. akad. zemed. ved. Hostl. vyroby, 29, No 6,
525-536, 1956

Abstract : Seven-day wheat seedlings are transplanted into long, rectangular plexiglass vessels filled with Knop's nutrient mixture, onto a partition dividing the vessel in half. Half of the root strands of every plant were provided with 7 microcuries of P³² per ml. By means of radio-autographs and a Geiger-Mueller counter it was shown that within 2 hours the P³² penetrated in the part of root strands that lacked P³² in the solution, and within 20 hours a considerable quantity of P³² was detected in the nutrient solution. The study was executed

Card : 1/1 at the Chair of Chemistry of the Higher School of
Agriculture.--Z.I. Zhurbitskiy

~~KUTACEK, M.~~ [KUTACEK, M.], KRATOKHVIL, L. [KRATOCHVIL, L.]

Paper electrophoretic investigation and separation of milk serum proteins from healthy cows and cows infected with brucellosis [with summary in German]. Biokhimiia 23 no.3:471-474 My-Je '58

(MIRA 11:8)

2. Kafedra khimii agronomicheskogo fakul'teta Nauchno-issledovatel'skogo instituta molochnoy promyshlennosti, Praga, Chekhoslovakiya.

(PAPER ELECTROPHORESIS)

(MILK--ANALYSIS)

(BRUCELLOSIS IN CATTLE)

KUTACEK, M., and others.

"Study of indole derivatives in Brussels sprouts (Brassica oleracea VAR. gemmifera)."

p. 531 (Chemicke Listy, Vol. 52, no. 3, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

KUTACEK, M.; VALENTA, M.; ICHA, F.

"Ascorbigen content in kohlrabi (Brassica oleracea VAR. gongylodes)
during vegetation. Relation of ascorbigen to the indole growth substances."

p. 537 (Chemicke Listy, Vol. 52, no. 3, Mar. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

KUTACEK, M.; ROKOSOVA, K.; RETOVSKY, R.

A study of metabolism of exogenous tryptophan and 5-indoleacetic acid in extirpated wheat embryos. In English. p. 54

BIOLOGIA PLANTARUM. (Czechoslovakian Academy of Sciences. Biological Institute)
Prague, Czechoslovakia, Vol. 1, no. 1, 1959

Monthly List of East European Accessions (EEAI), Vol. 8, no. 11, Nov. 1959
Uncl.

VALENTA, M.; KUTACEK, M. [Kutacek, M.]

Effect of light and temperature on biosynthesis of indole type
ascorbigen. Fiziol. rast. 7 no. 5:607-609 '60.

(MIRA 13:10)

1. Czechoslovak Academy of Agricultural Sciences Laboratory
of the Reproduction Biology, Lebehov and Institute of Plant
Growing, Ruzine.

(Ascorbic acid) (Plants, Effect of light on)
(Plants, Effect of temperature on)

KUTACEK, M.

Ascorbigen from the plants of Brassicaceae family. Postepy biochem 7
no.2:223-242 '61.

(VITAMIN C chem) (PLANTS chem)

KUTACEK, Milan, dr.; ROSMUS, Jan, inz.; DEYL, Zdenek, inz.

New methods of chromatographic separation of gibberellins A₁ and A₃.
Biologia plantarum 4 no.3:226-231 '62.

1. Research Institute of Plant Production, Czechoslovak Academy
of Sciences, Praha - Ruzyně (for Kutacek). 2. Central Research
Institute of Food Industry, Praha - Smichov, Na belidle 21 (for
Rosmus and Deyl).

*

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Vlastimil, inz., Sc.C.

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1. Vysoka skola zemedeksa, katedra chemicka, Praha; Ustav
organicka chemie a biochemie, Ceskoslovenska akademie ved, Praha.
2. Laborator pro biologii rozmnozovani, Libechov (for Valenta).
3. Ustredni vyzkumny ustav rostlinne vyroby, Ruzyne (for Kutacek).

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KUTACEK, Milan

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1. Institute of Experimental Biology, Czechoslovak Academy of Sciences, Prague.

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Milan, dr. CSc.

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1. Laboratory of Physiology and Genetics of the Czechoslovak Academy of Sciences, Libechov, District Melnik (for Valenta).
2. Institute of Experimental Botany of the Czechoslovak Academy of Sciences, Prague (for Kutacek).

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1. Chair of Soil Science and Agrochemistry of the Higher School of Agriculture, Prague-Bejvice, Teckriska ul. (for Tesar).
2. Department of Radiobiology of the Institute of Experimental Botany of the Czechoslovak Academy of Sciences, Prague-Yakovice, Ke zveru (for Kufacek).
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1. Department of Plant Physiology and Genetic Physiology of
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Academy of Sciences, Prague 6, Flemingovo nam.2 (for Novakova).
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(THYROID GLAND--RADIOGRAPHY)

(PITUITARY BODY--RADIOGRAPHY) (ADRENAL GLANDS--RADIOGRAPHY)

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A.V. Lebedinskiy.

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Method of preserving metachromasia in permanent preparations.

Arkh. anat., gist. i embr. 49 no.8:108-109 Ag '65.

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biokhimi (zav.- prof. N.P. Pyatnitskiy) Kubanskogo meditsinskogo
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KUTAKHCY, P., general-leutenant aviatsii, Geroy Sobremennogo boya, voyennyi
letchik pervogo klassa.

Training teachers. Technical education of a commander. Av. i kosm.
46 no.9:5-11 S '63. (MIRA 16:10)

KUTAKHOV, P., general-leytenant aviatsii, Geroy Sovetskogo Soyuz, voyenny letchik pervogo klassa

Education of educators; highest degree of discipline. Av. 1 kosm. 46 no.12:43-49 D '63. (MIRA 17:1)

KUTAKHOV, P., general-leytenant aviatsii, Geroy Sovetskogo Soyusa,
voyennyy letchik pervogo klassa; FIL'CHENKO, L., polkovnik

Live spring of creative spirit. Av. i kosm. 45 no.11:55-56
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SAVRASOV, Vladimir Kuz'mich; KUTAKOV, Boris Georgiyevich;
GLADKOV, V.A., red.; SYCHEVA, V.A., tekhn. red.

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ALEKSEYEV, A.F., otv. red.; ADROV, M.M., spets. red.; KONSTANTINOV, K.G., spets. red.; KUTAKOV, B.G., red.; MASLOV, N.A., red.; MINDER, L.P., red.; NIKOL'SKIY, L.S., red.; STAROVVOYTOV, P.A., red.; SURKOV, S.S., red.; KIRANOVSKIY, A.Yu., red.; YUDANOV, I.G., red.; VOROB'YEV, A.T., red.

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3. Laboratoriya vosproizvodstva Polyarnogo Nauchno-issledovatel'skogo i proyekt-nogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Surkov).
4. Laboratoriya tekhniki promyshlennogo rybolovstva Polyarnogo nauchno-issledovatel'skogo i proyekt-nogo instituta morskogo rybnogo khozyaystva i okeanografii, Murmansk (for Starovoytov).

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Some problems of the mechanism of the action of leeches. Zdrav.
Prk. 7 no.5:11-14 (41) May '63. (MIA 16:8)

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(LEECHES) (BLOODLETTING)

KUTAKOV, O.I.

Frothrombin index and general coagulability of the blood after
applying leeches to patients with thrombophlebitis and in an
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Turkmenskogo gosudarstvennogo meditsinskogo instituta imeni
I.V. Stalina.

(PROTHROMBIN)
(PHLEBITIS)

(BLOOD COAGULATION)
(LEECHES)

KUTAKOV, V., slesar'

Inspired work is the first commandment. Sov. profsoiuzy 19 no.14:
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M.I.Kalinina, Podol'sk, Moskovskoy oblasti.
(Podol'sk (Moscow Province)--Machinery industry workers)
(Labor discipline)

ARUTYUNOV, V.Ya., prof.; GURVICH, Ye.I., prof. pri uchastii vrachey: E.M. Khuhlarova, Z.F.Ivantsovoy (Podol'sk), A.V.Stepunova, P.N.Goryacheva, M.I.Yelisyevoy (Mytishchi), S.F.Stepanovoy (Bolshevo), V.A.Leonovoy (Babushkin), M.P.Goncharova (Kaliningrad), G.Ya.Ashkinezer (Kostino), V.M.Pototskogo, G.I.Ponomarevov, A.A.Pleve. A.V.Boskodarova (Serpukhov), I.I.Kutakova (Yegor'yevsk), G.S.Indenbaum (Kolonna), L.I.Andreyeva, V.G.Ionovoy (Pushkino), G.M.Fedorova (Zagorsk), I.S.Belen'kogo (Tushino)

Late results in the treatment of syphilis. Vest.derm. i ven. 32
no.2:57-60 Mr-Apr '58. (MIRA 11:4)

1. Iz kozhno-venerologicheskoy kliniki (dir. - prof. V.Ya.Arutyunov)
Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo
instituta imeni M.F.Vladimirovskogo (dir. - kand.med.nauk P.M.Leonenko)
(SYPHILIS, ther.
late results (Rus))

TIMOFEYEVA, Zoya Andreyevna, kand. tekhn.nauk; KHRENKOV, Pavel
Ivanovich, inzh.; KUTAKOVA, L.I., red.; GRIGOR'YEVA, I.S.,
red.izd-va; BOL'SHAKOV, V.A., tekhn. red.

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kikh i uzkih lent mikronnykh sechenii. Leningrad, 1961. 13 p.
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen pe-
redovym opytom. Seriya: Pribory i elementy avtomatiki, no.11)
(MIRA 16:2)

(Instrument manufacture--Design and construction)

VASIL'YEVA, Yekaterina Matveyevna; KUTAKOVA, L.I., inzh., red.;
FOMICHEV, A.G., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Saturation of the wound parts of electrical machines with
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lakom 321-T namotochnykh uzlov elektricheskikh mashin.
Leningrad, 1961. 15 p. (Leningradskii dom nauchno-tekhnicheskoi
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avtomatiki, no.16)

(MIRA 15:4)

(Electric machinery--Windings)

IL'IN, Vladimir Ivanovich; KUTAKOVA, L.I., inzh., red.; FREGER, D.,
red.izd-va; GVIRTS, V.L., tekhn. red.

[Semiautomatic welding of units in printed circuit assembly
using a cascade method] Poluavtomat paiki blokov na pechat-
nom montazhe metodom kaskada. Leningrad, 1962. 13 p. (Le-
ningradski dom nauchno-tekhnicheskoi propagandy. Seriya:
Prubory i elementy avtomatiki, no.10) (MIRA 16:12)
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MANEVICH, Roman Mikhaylovich, inzh.; KUTAKOVA, L.I., inzh., red.;
FOMICHEV, A.G., red. izd-va; GVIRTS, V.L., tekhn. red.

[Location of short-circuits in the turns of rotating turbo-
generator rotors] Obnaruzhenie vitkovykh zamykanii v obmot-
kakh vrashchaiushchikhsia rotorov turbogeneratorov. Lenin-
grad, 1962. 13 p. (Leningradskii dom nauchno-tekhnicheskoi
propagandy. Obmen peredovym opytom. Seria: Pribory i elementy
avtomatiki, no.9) (MIRA 16:2)
(Turbogenerators--Windings)

POPOV, Vladimir Sergeyevich, kand. tekhn. nauk; KUTAKOVA, L.I.,
inzh., red.; VASIL'YEV, Yu.A., red.izd-va; GVIRTS, V.L.,
tekhn. red.

[Wire resistors with indirect heating and their use in
automatic control systems and measuring devices] Metal-
licheskie provolochnye soprotivlenia s kosvennym pod-
grevom i ikh primeneniye v avtomaticheskikh i izmeritel'-
nykh ustroistvakh. Leningrad, 1962. 19 p. (Leningrad-
skii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym
opytom. Seriya: Pribory i elementy avtomatiki, no.2)

(MIRA 16:3)

(Automatic control) (Electric measurements)
(Electric resistors)

KUTAKOVA, Nadezhda Petrovna; GUROV, S., red.; LIL'YB, A., tekhn.red.

[Fulfilling the five-year plan in four years] Piatiletku -
v chetyre goda [Moskva] Mosk.rabochii, 1957. 51 p. (MIRA 11:1)

1. Brigadir kettel'shchits Tushinskoy chulochnoy fabriki (for
Kutakova).

(Knit goods industry)

KUTAKOVA, Ye.A.

Medical service for industrial workers in Yegor'yevsk, Moscow
Province. Zdrav.Ros.Feder. 3 no.6:11-13 Je '59.

(MIRA 12:6)

1. Iz Yegor'yevskogo gorzdravotela.
(YEGOR'YEVSK--MEDICAL CARE)

KUTAL, A.

KUTAL, A. Some problems of controlling water pollution. p. 362.

Vol. 1, No. 10, Oct. 1955

VOJENSKÉHO
VÝSKUMNÉHO ÚSTAVU

TECHNICKÝ

Praha, Czechoslovakia

So: East European Accessions, Vol. 1, No. 5, May 1956

MANN, M.; KUDAL, N.

A contribution to the diagnosis and treatment of gastric carcinoma. Rozhl. chir. 44 no.3:145-148 Br '65

I. Chir. odlozeni nemocice v Novem Meste na Morave (vedouci)
MUDr. M. Mann, CSc.

SMRN, Miroslav, MUDr.; KUTAL, Milos, MUDr.

Personal experience on the use of hydergine in artificial hibernation.
Rozhl. chir. 36 no.2:112-115 Feb 57.

1. Chirurgické oddelení nemocnice v Novém Městě na Moravě, přednáška
prim. MUDr Jaroslav Pospisilik.

(ERGOT ALKALOIDS, ther. use

hydergine in artif. hibernation, comparison with
chlorpromazine (Cz))

(HIBERNATION, ARTIFICIAL,

with hydergine, comparison with chlorpromazine (Cz))

(CHLORPROMAZINE, ther. use

in artif. hibernation, comparison with hydergine (Cz))

KUTAL, O. - Vol. 14, no. 4, Apr. 1953 SLABOPROUDY OBZOR

Transmission functions of RC and RL circuit elements. (Supplement) p. P17.

SO: Monthly list of East European Accessions, (KEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

KUTAL, O. - Vol. 14, no. 4, Apr. 1953. SLABOPROUDY OBZOR

Application of the complex plane for the solution of feed-back problems. p. 172.

SO: Monthly list of East European Accessions, (EFAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

1, 2.

1. The first of the following is a list of the names of the persons who were members of the committee on the subject of the above-mentioned matter, and the names of the persons who were members of the committee on the subject of the above-mentioned matter, and the names of the persons who were members of the committee on the subject of the above-mentioned matter.

2. The second of the following is a list of the names of the persons who were members of the committee on the subject of the above-mentioned matter, and the names of the persons who were members of the committee on the subject of the above-mentioned matter, and the names of the persons who were members of the committee on the subject of the above-mentioned matter.

10/10/0

621.318.435.3 : 621.375.3
2783. A self-saturating magnetic amplifier. (C)
Ktural. *Sahproudy Obzor*, 15, No. 11, 519-27
(1973) In Czech.

Gives the theory of a simple magnetic amplifier and defines the firing and conduction angles, average output current and voltage and the voltage and power amplification. Control characteristics, i.e. control current v output current, for an amplifier employing a toroidal coil made of Mu-metal strips, with inner and outer diameters of 30 and 60mm, respectively, were measured and plotted as a function of the following variable parameters: voltage and frequency of the output circuit source, number of turns in the control winding, magnitude of the output resistance and characteristics of the rectifier. Several types of common amplifier circuits are briefly discussed.
H. S. STECHOWICZ

BT 2/27/73

KUTAL, O.

"Notes on digital calculating techniques. Pt. 2. Logical circuits of the digital counter."

p. 216 (Sdelovaci Technika, Vol. 6, No. 6, June 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (FEAI) LC, Vol. 7, No. 9, September 1958.

PKHALADZE, G.M., prof.; MACHAVARIANI, S.N., dotsent; TSINTSADZE, A.N.;
MACRADZE, K.G., dotsent; FOCHKHUA, P.E.; CHOCHUA, D.V., kand.
med. nauk; KOTARIYA, V.G., kand. med. nauk; KADAGIDZE, K.I.,
kand. med. nauk; GURABANIDZE, T.A., kand. med. nauk; PKHAKADZE,
A.S., kand. med. nauk; AMIRIDZE, M.V., kand. med. nauk; KAVTARADZE,
V.A., kand. med. nauk; KUTALADZE, L.A., kand. med. nauk; TSAGARELI,
G.G., kand. med. nauk, [deceased]; KFNCHADZE, I., kand. med. nauk;
ABASHIDZE, N.G., kand. med. nauk; KHMALADZE, T.I., kand. med. nauk;
DZHADZHANIDZE, D.V., kand. med. nauk

Effectiveness of the treatment of infectious syphilis (stage I
and II) with bicillin-1 and bicillin-3. Vest. dermat. i ven.
no.1:56-61 '65. (MIRA 12:10)

1. Tbilisskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy
institut (dir.- dotsent S.N. Machavariani) i kafedra kozhno-
venericheskikh bolezney (zav.- prof. G.M. Pkhaladze) Tbilisskogo
instituta usovershenstvovaniya vrachey.

L 37094-66 EWT(1)/EAI(m)/T/EXP(t)/ETI IJP(c) G3/AT/WA/JD
ACC NRI AF601B137 SOURCE CODE: UR/0251/66/041/001/0045/0048

AUTHOR: Nakashidze, G. A.; Abramov, S. M.; Bedenashvili, B. G.; Machkalova, N. P.;
Kandelaki, M. O.; Kutaladze, L. M.; Peskov, O. G.

ORG: Academy of Sciences, Georgian SSR, Institute of Cybernetics (Akademiya nauk
Gruzinskoy SSR, Institut kibernetiki)

TITLE: Semiconductor source of visible radiation

SOURCE: AN GruzSSR. Soobshcheniya, v. 41, no. 1, 1966, 45-48

TOPIC TAGS: light source, gallium compound, phosphide, pn junction, photoelectric
property, semiconductor diode, semiconductor carrier, forbidden band, volt ampere
characteristic

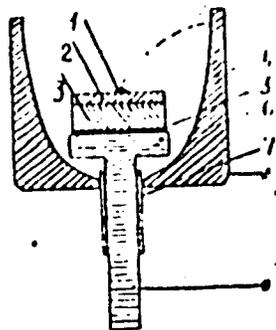
ABSTRACT: The authors describe a diode emitting visible light, based on gallium phosphide with diffusion n-p junction, and describe some of its photoelectric characteristics. The light radiated by the diode is produced by recombination of non-equilibrium carriers through the impurity levels in the forbidden band, or by band-band recombination (Fig. 1). The volt-ampere characteristics taken at room temperature and at liquid-nitrogen temperature exhibit a sharp breakdown in both the forward and inverse directions. The spectrum at liquid-nitrogen temperature has three peaks at 7100, 6140, and 5650 Å, which successively decrease in amplitude with decreasing wavelength. There is no adequate explanation for the structure of the spectrum. According to preliminary data, the time constant of the radiation is 2×10^{-7} sec. The

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ACC NR: AF6018137

Fig. 1. Construction of gallium-phosphide light source.
1 - Point contact, 2 - p region, 3 - n region, 4 - metal housing with reflecting internal surface, 5 - solid contact, 6 - copper cooling holder, 7 - insulation.



authors thank Professor N. A. Goryunova and A. B. Borshchevskiy for supplying the gallium-phosphide crystals. This report was presented by Academician V. I. Mamasakhlisov 25 February 1965. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 25Feb65/ OTH REF: 005

ms
Card 2/2

KUTALADZE, S.D.

Contribution to a biological study of orchard grass. Trudy
Tbil.bot.inst. 20:235-247 '59. (MIRA 13:8)
(Orchard grass) (Plants, Effect of light on)

I 40226-66 EWI(1) IJL(2) 1/10/3

ACC NR: AT6021833 SOURCE CODE: UR/0000/65/000/000/0007/0020

AUTHOR: Kutaleladze, S. S. 36

ORG: Siberian Branch AN SSSR (Sibirskoe otdeleniye AN SSSR) 71

TITLE: Turbulent heat and mass transfer with physical and chemical transformations

SOURCE: Teplo- i massoperenos. t. III: Teplo- i massoperenos pri fazovykh prevrashcheniyakh (Heat and mass transfer. v. 3: Heat and mass transfer in phase transformations). Minsk, Nauka i tekhnika, 1965, 7-20

TOPIC TAGS: turbulent heat transfer, mass transfer, chemical reaction

ABSTRACT: The turbulent boundary layer, as a statistical system, has a finite number of conservative properties, the most important of which are: a) conservation of the length of the mixing path in the neighborhood of the wall (but outside of the viscous sublayer) with respect to the pressure gradient and the compressibility; b) degeneration of the viscous sublayer and the density pulsations when the Reynolds number approaches infinity and, as a result, the existence of limiting friction laws which, in the general case, do not depend on the integral constants of the turbulence; c) continuity of the velocity and

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LML 20-66

ACC NR: AT6021833

temperature profiles at large Reynolds numbers; d) conservation of the parameter

$$\eta_i^2 = \left(\frac{y^2}{\nu} \frac{\partial w_x}{\partial y} \right)_i \quad (3)$$

which characterizes the stability of the viscous sublayer on an impermeable surface, where y is a coordinate directed normal to the surface, η_1 is the dimensionless thickness of the viscous sublayer; e) the appearance of secondary boundary layers in the region of turbulent flow. The Prandtl equation is asymptotic with respect to the Navier-Stokes and the Fourier-Kirchhoff equations. The article proceeds to a theoretical development based on the above premises and to a comparison of the calculated results with existing literature data. These comparisons are given in a series of tables and curves. Orig. art. has: 23 formulas, 2 tables and 7 figures.

SUB CODE: 20/ 07/ SUBM DATE: 09Dec65/ ORIG REF: 021/ OTH REF: 015

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AUTHOR: Kutaleledzo, S. S.; Leont'yev, A. I.; Mamontova, N. N.;
Moskvicheva, V. N.; Shtokolov, L. S.

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ORG: Institute of Thermophysics, Siberian Branch AN SSSR (Institut
teplofiziki SO AN SSSR)

TITLE: Hydrodynamic theory of the heat transfer crisis in forced flow
of a boiling liquid. The crisis at high flow rates and a zero vapor
content in the flow

SOURCE: Teplo- i massoperenos. t. III: Teplo- i massoperenos pri
fazovykh prevrashcheniyakh (Heat and mass transfer. v. 3: Heat and mass
transfer in phase transformations). Minsk, Nauka i tekhnika, 1965,
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TOPIC TAGS: boiling, heat transfer, hydrodynamic theory

ABSTRACT: From the theory of the limiting friction laws in the
turbulent boundary layer it follows that when the Reynolds number
approaches infinity, the critical injection in a homogeneous flow is
equal to

$$j_{sp} = 2c_{10} \gamma W_0 \quad (1)$$

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We assume that the amount of liquid ejected from the boundary layer region in the moment of crisis is

$$j_* = 2c_{j0} \gamma' W_0 (1 - \varphi_*), \quad (2)$$

where φ_* is the volumetric vapor content of the boundary layer region, and the energy required for this ejection comes from the loss of kinetic energy from the vapor stream, that is

$$\frac{j_*^2}{\gamma'} = \left(\frac{q_{sup}}{\varphi_* r \gamma''} \right)^2 \gamma'. \quad (3)$$

Then

$$q_{sup} = 2c_{j0} \varphi_* (1 - \varphi_*) r \sqrt{\gamma' \gamma''} W_0. \quad (4)$$

On the above basis, the article considers mathematically the effect of underheating of the core of the flow up to the saturation temperature, and the effect of the vapor content of the flow. Orig. art. has: 19 formulas and 3 figures.

SUB CODE: 20/ SUBM DATE: 09Dec65/ ORIG REF: 016/ OTH REF: 009

Card 2/2//LP

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[Heat transfer and hydraulics of two-phase media; collected articles]
Voprosy teplootdachi i gidravliki dvukhfaznykh sred; sbornik statei.
Moskva, Gos. energ. izd-vo, 1961. 392 p. (MIRA 14:11)
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Proteolytic activity in epidemic hepatitis. Cas. Lek. Cesk. 100 no.49:
1545-1548 8 D '61.

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(PROTEASES blood) (HEPATITIS INFECTIOUS blood)

KUTAMONOVA, N.I.

Multiple cicatricial stenosis of the jejunum after poisoning with alkali hydroxide. Khirurgia no.4:86 Ap '55. (MLBA 8:9)

1. Khirurgicheskaya klinika Saratovskogo meditsinskogo instituta.

(INTESTINES--DISEASES) (ALKALIES--PHYSIOLOGICAL EFFECT)

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Heterotopic pancreatic polyadenoma of the stomach. Vest. khir. 75
no.1:64-65 Ja-P '55. (MLRA 8:4)

1. Iz khirurgicheskoy kliniki (zav. prof. I.Ya.Ar'yev) 1-y klini-
cheskoy bol'nitsy g.Saratova).
(STOMACH, neoplasms,
adenoma, heterotopic pancreatic)

Кутамонова / Т. Я.

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(EXTREMITIES, LOWER--SURGERY)

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(Pimaric acid) (Gums and resins)

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[Safety measures and industrial sanitation in flax mills] Tekhnika bezopasnosti i promyshlennaia sanitariia na l'nosavodakh. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1953. 114 p. (MLRA 7:6)
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